

What is claimed is:

- Sub C1
1. A data transmission system comprising:
 calculation means for performing calculation using a variable on an original data stream read from a recording medium so as to produce a calculated data stream;
 5 variable creation means for creating the variable;
 a stream buffer for temporarily storing the calculated data stream therein;
 inverse calculation means for performing inverse calculation on the calculated data stream output from the stream buffer to reproduce the data
 10 stream;
 stream processing means for processing the reproduced data stream to produce a processed data stream; and
 output means for outputting the processed data stream.
 2. A data transmission system according to claim 1 wherein the data stream read from the recording medium corresponds to an amount of data which can be processed at a time.
 - a 3. A data transmission system according to claim 1 or 2 wherein the variable do not remain the same so that the variable is changed at an arbitrary timing.
 - a 4. A data transmission system according to ^{claim 1} ~~any one of claims 1 to 3~~

wherein a variable change code representing a message that the variable is changed is produced by the calculation using the variable and is temporarily stored in the stream buffer together with the calculated data stream.

5. A data transmission system comprising:

calculation means for performing calculation using a variable on an original data stream read from a recording medium so as to produce a calculated data stream;

5 variable creation means for creating a number of variables, one of which is arbitrarily chosen as the variable used for the calculation;

a stream buffer for temporarily storing the calculated data stream therein;

inverse calculation means for performing inverse calculation on the
10 calculated data streams output from the stream buffer to reproduce the data stream;

stream processing means for processing the reproduced data stream to produce a processed data stream; and

output means for outputting the processed data stream.

6. A data transmission system according to claim 5 wherein the data stream read from the recording medium corresponds to an amount of data which can be processed at a time.

a 7. A data transmission system according to ^{claim 5} ~~5 or 6~~ wherein a variable

change code representing a message that the variable is changed is produced by the calculation using the variable and is temporarily stored in the stream buffer together with the calculated data stream.

8. A data transmission system comprising:

variable creation means for creating a variable set consisting of a number of variables;

5 calculation means for receiving an original data stream read from a recording medium so as to perform calculation on the original data stream by use of a variable which is selected from the variable set given from the variable creation means, so that the calculation means produces a calculated data stream based on the original data stream as well as a variable change code representing the variable selected from the variable
10 set;

a stream buffer for temporarily storing the calculated data stream together with the variable change code;

inverse calculation means for performing inverse calculation on the calculated data stream output from the stream buffer by use of the variable
15 which is selected from the variable set in accordance with the variable change code, so that the inverse calculation means reproduces the data stream based on the calculated data stream;

stream processing means for processing the reproduced data stream so as to produce a processed data stream; and

20 output means for outputting the processed data stream.

9. A data transmission system according to claim 8 wherein the variable creation means creates the variable set in each cycle while the variable selected from the variable set is changed in each cycle of the calculation, so that the calculation and the inverse calculation are
- 5 respectively performed using a same changed variable designated by the variable change code in each cycle.

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